Base developable discharge toplayer for E-beam resists

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Abstract of EP0	1540448	
Aqueous base soluble conducting polymers are disclosed, as is their use to dissipate an electrical charge		
and thereby to improve the precision of processes involving charged particle beams. Electrically		
conductive functionalized polymers include polyanilines, polyparaphenylvinylenes, polythiophenes.		
polypyrroles, poly-p-phenylene oxides, polyfurans, polyphenylenes, polyazines, polyselenophenes, polyphenylene sulfides and polyacetylenes. Also disclosed are processes for the synthesis of poly		
(hydroxyanilines) and polythiophenes and compositions and methods for preparing aqueous base soluble		
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- (54) Base developable discharge toplayer for E-beam resists.
- Aqueous base soluble conducting polymers are disclosed, as is their use to dissipate an electrical charge and thereby to improve the precision of processes involving charged particle beams. Electrically conductive functionalized polymers include polyanilines, polyparaphenylvinylenes, polythiophenes, polypyrroles, poly-p-phenylene oxides, polyfurans, polyphenylenes, polyazines, polyselenophenes, polyphenylene sulfides and polyacetylenes. Also disclosed are processes for the synthesis of poly(hydroxyanilines) and polythiophenes and compositions and methods for preparing aqueous base soluble conductive films.